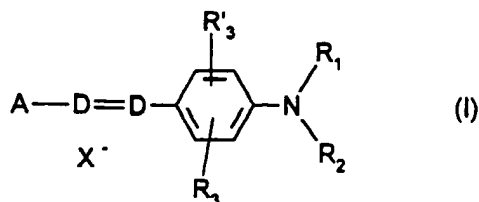


(ii) at least one thickening polymer;

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

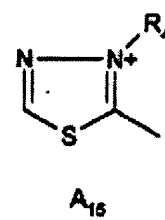
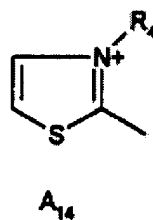
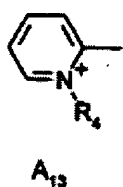
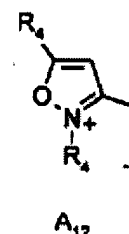
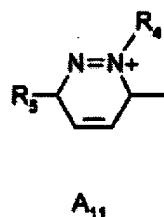
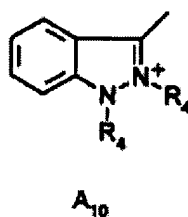
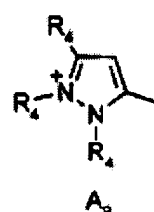
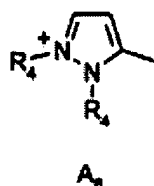
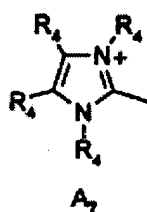
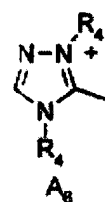
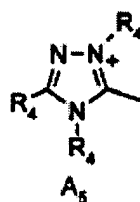
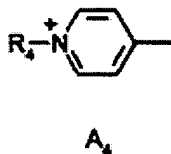
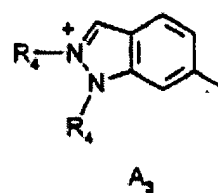
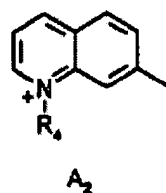
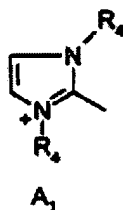
R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

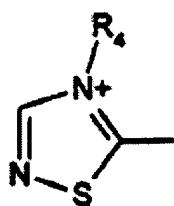
R₁ and R₂ may form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

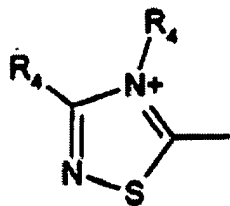
X⁻ is chosen from anions,

A is chosen from structures A₁ to A₁₉ below:

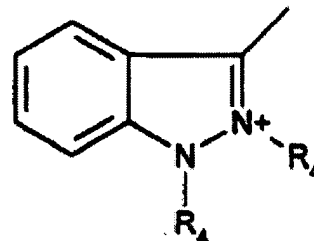




A₁₆

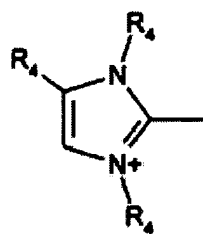


A₁₇



A₁₈

and



A₁₉

in which:

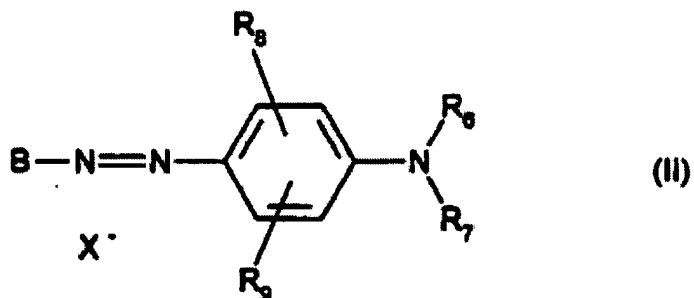
R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when

R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

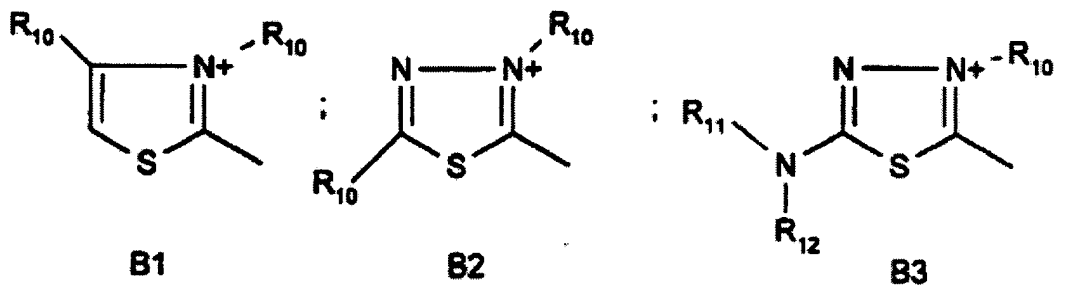
R_6 is chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

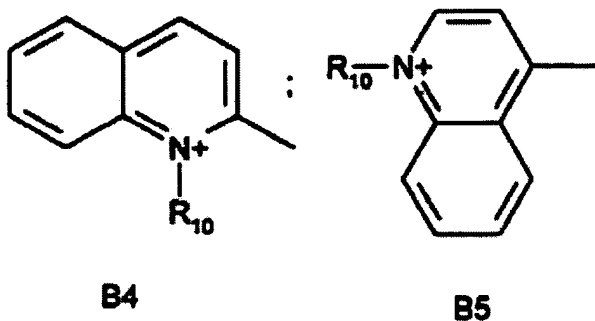
R_7 is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R_6 , a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C_1 - C_4 alkyl radicals,

R_8 and R_9 , which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C_1 - C_4 alkyl radicals, C_1 - C_4 alkoxy radicals and a -CN radical,

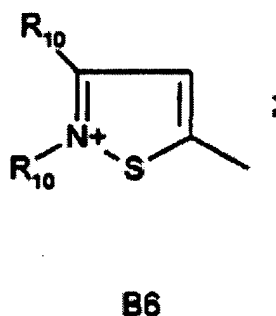
X^- is chosen from anions,

B is chosen from structures B_1 to B_6 below:





and

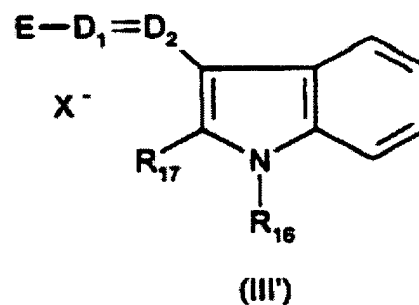
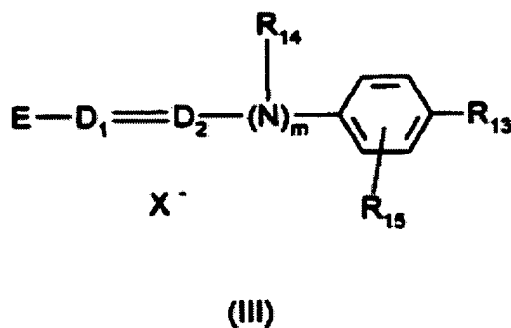


in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

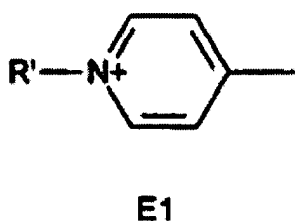
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

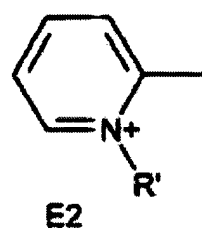
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

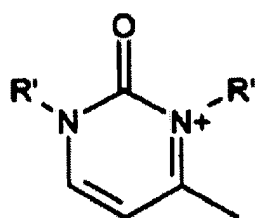
E is chosen from structures E_1 to E_8 below:



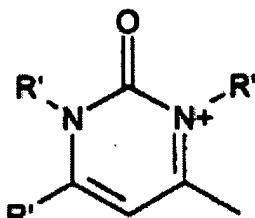
;



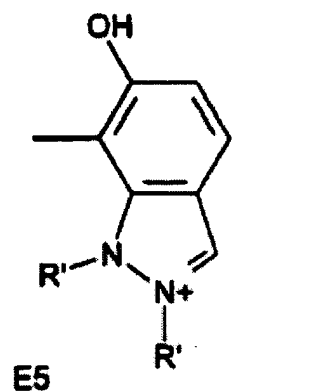
;



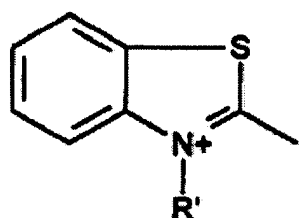
E3



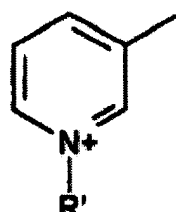
E4



E5

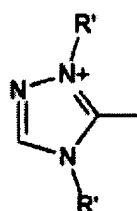


E6



E7

and

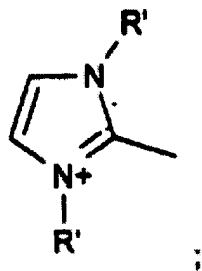


E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:

E9



in which R' is chosen from C₁-C₄ alkyl radicals;

and

(d) wherein said at least one thickening polymer is chosen from:

- (ii)₁ - nonionic guar gums;
- (ii)₂ - biopolysaccharide gums of microbial origin;
- (ii)₃ - gums derived from plant exudates;
- (ii)₄ - pectins;
- (ii)₅ - alginates;
- (ii)₆ - starches; and
- (ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses,

with the provisos that

(1) when said at least one cationic direct dye is chosen from compounds of formula (I) wherein:

- both D's are simultaneously nitrogen atoms,
- R₃ and R'₃ are simultaneously hydrogen atoms,
- R₁ and R₂ are simultaneously unsubstituted methyl radicals, and
- A is A₆ wherein R₄ is an unsubstituted methyl radical, or

(2) when said at least one cationic direct dye is chosen from compounds

of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero,
- R₁₅ is a hydrogen atom,
- R₁₃ is a dimethylamino radical, and
- E is E₈ wherein R' is an unsubstituted methyl group,

then the at least one thickening polymer is not chosen from at least one nonionic guar gum; and

with the further provisos that

(1) when said at least one cationic direct dye is chosen from compounds

of formula (I) wherein:

- both D's are simultaneously nitrogen atoms, and
- A is chosen from A₄ and A₁₃, or

(2) when said at least one cationic direct dye is chosen from compounds

of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero, and
- E is chosen from E₁, E₂, and E₇,

then said at least one thickening polymer is not chosen from hydroxyalkylcelluloses and carboxyalkylcelluloses.

⁴⁴
45. (Amended Three Times) A process for dyeing keratin fibers,

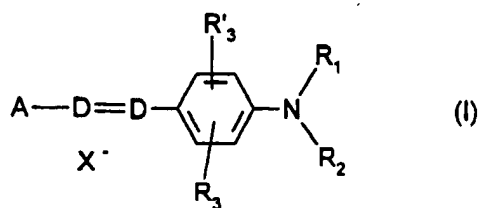
comprising applying at least one dye composition to said keratin fibers and

developing for a period of time sufficient to achieve a desired coloration, wherein said at least one dye composition comprises:

(i) at least one cationic direct dye chosen from compounds of formulae (I), (II), (III) and (III') below, and

(ii) at least one thickening polymer;

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

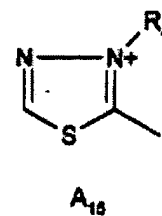
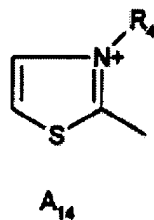
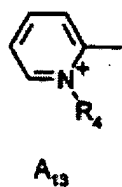
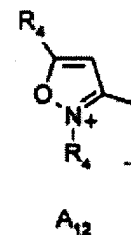
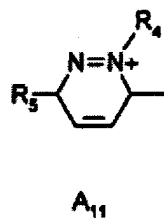
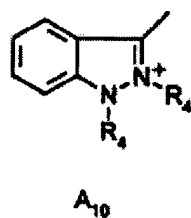
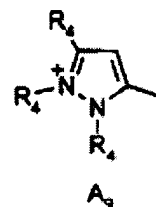
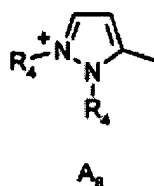
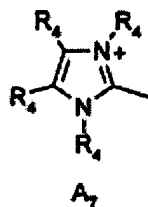
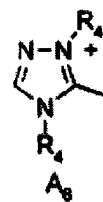
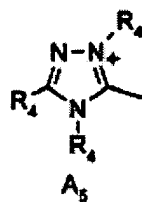
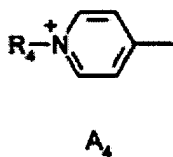
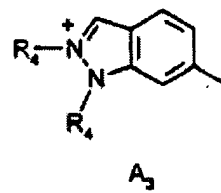
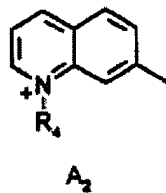
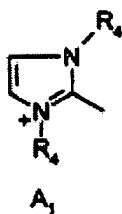
R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

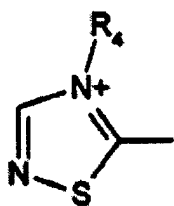
R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

R₃ and R₃', which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

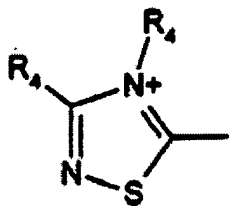
X⁻ is chosen from anions,

A is chosen from structures A₁ to A₁₉ below:

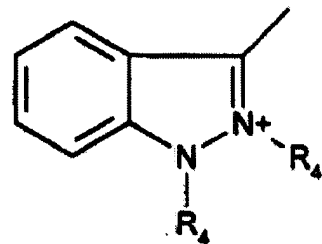




A₁₆

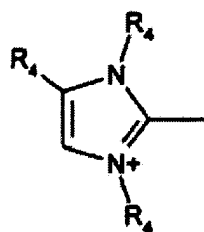


A₁₇



A₁₈

and



A₁₉

in which:

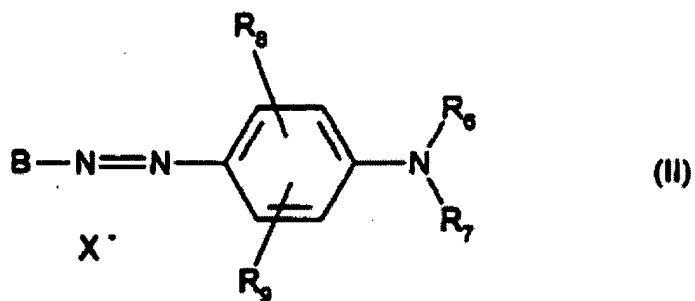
R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when

R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

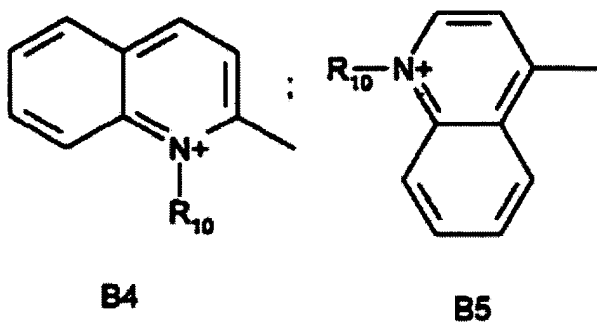
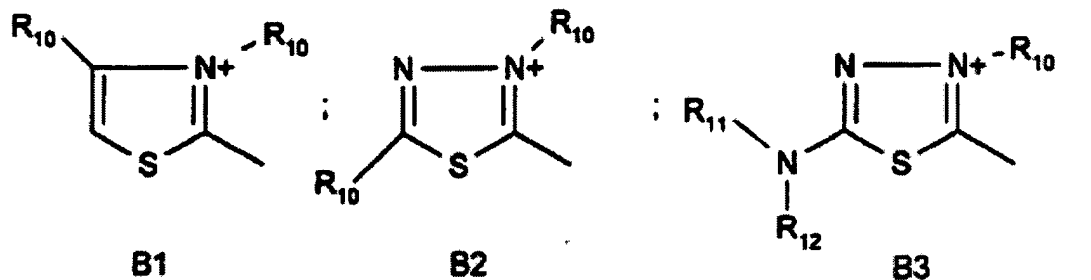
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

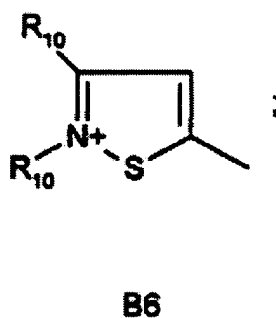
R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



and

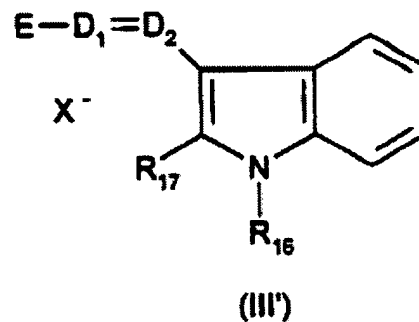
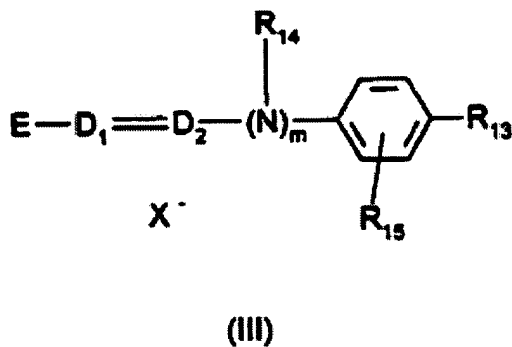


in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one to radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

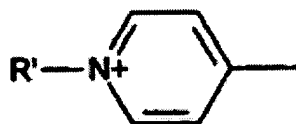
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

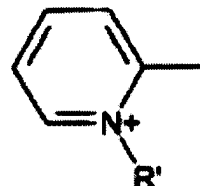
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

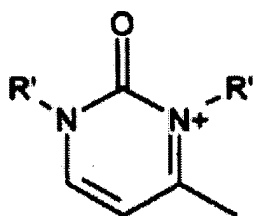
E is chosen from structures E_1 to E_8 below:



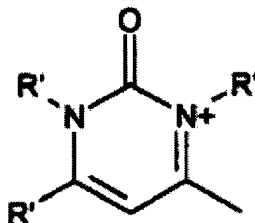
E1



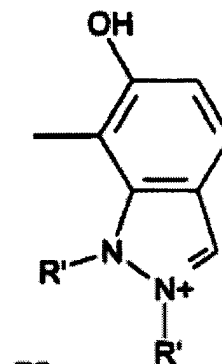
E2



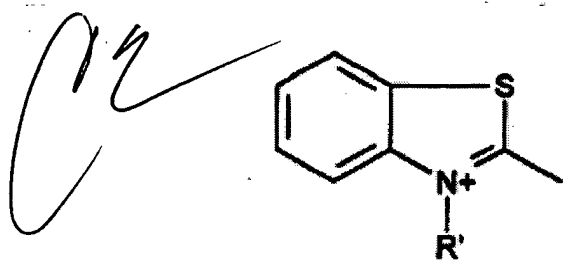
E3



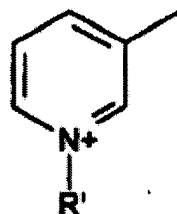
E4



E5

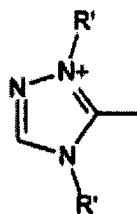


E6



E7

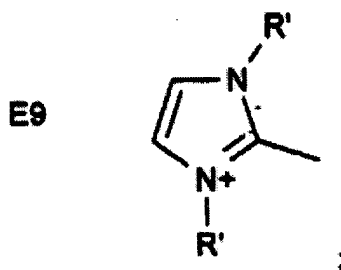
and



E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

and

(d) wherein said at least one thickening polymer is chosen from:

(ii)₁ - nonionic guar gums;

(ii)₂ - biopolysaccharide gums of microbial origin;

(ii)₃ - gums derived from plant exudates;

(ii)₄ - pectins;

(ii)₅ - alginates;

(ii)₆ - starches; and

(ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses,

with the provisos that

(1) when said at least one cationic direct dye is chosen from compounds of formula (I) wherein:

- both D's are simultaneously nitrogen atoms,
- R₃ and R'₃ are simultaneously hydrogen atoms,
- R₁ and R₂ are simultaneously unsubstituted methyl radicals, and


- A is A₆ wherein R₄ is an unsubstituted methyl radical, or

(2) when said at least one cationic direct dye is chosen from compounds of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero,
- R₁₅ is a hydrogen atom,
- R₁₃ is a dimethylamino radical, and
- E is E₈ wherein R' is an unsubstituted methyl group,

then the at least one thickening polymer is not chosen from at least one nonionic guar gum; and

with the further provisos that

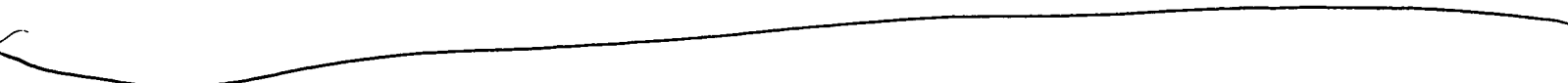
 (1) when said at least one cationic direct dye is chosen from compounds of formula (I) wherein:

- both D's are simultaneously nitrogen atoms, and
- A is chosen from A₄ and A₁₃, or

(2) when said at least one cationic direct dye is chosen from compounds of formula (III) wherein:

- D₁ and D₂ are simultaneously nitrogen atoms,
- m is zero, and
- E is chosen from E₁, E₂, and E₇,

then said at least one thickening polymer is not chosen from hydroxyalkylcelluloses and carboxyalkylcelluloses.



48. ⁴⁸ (Amended Twice) A process for dyeing keratin fibers, comprising

separately storing a first composition,

separately storing a second composition,

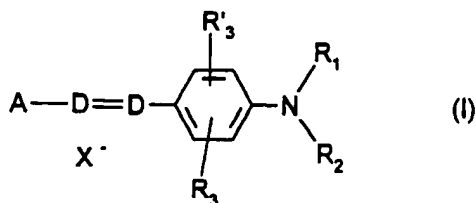
thereafter mixing said first and second compositions,

applying said mixture to said fibers, and

developing for a period of time sufficient to achieve a desired coloration,

- wherein said first composition comprises at least one cationic direct dye chosen from compounds of formulae (I), (II), (III) and (III') below, at least one thickening polymer and at least one oxidation base,

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of

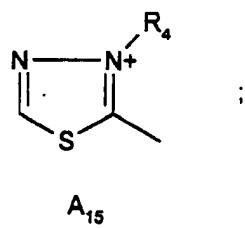
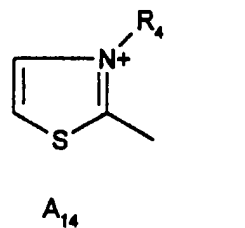
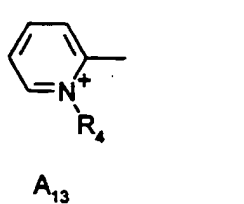
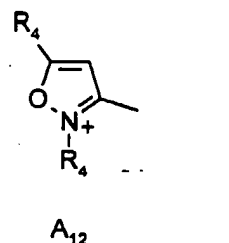
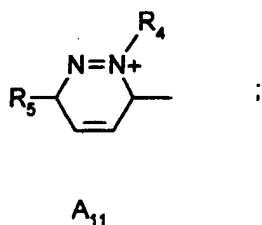
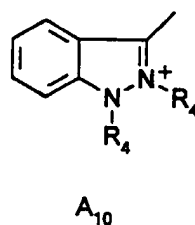
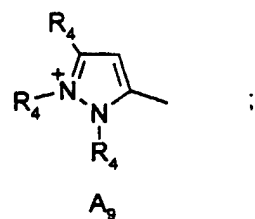
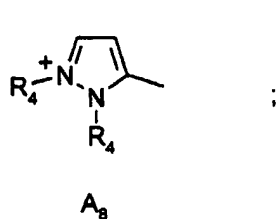
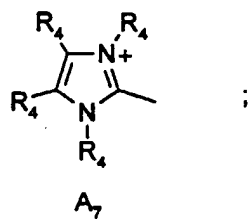
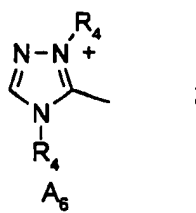
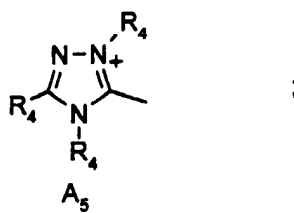
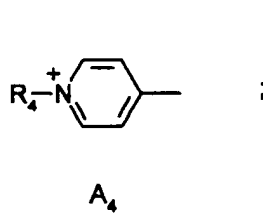
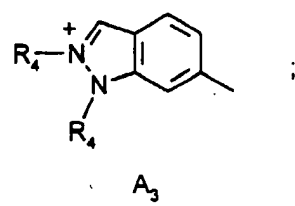
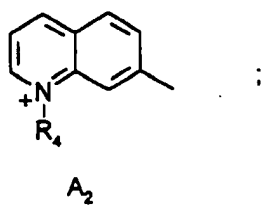
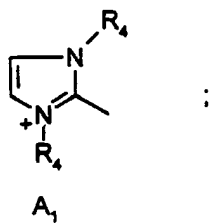
formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

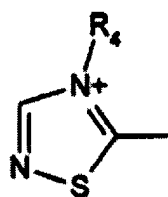
X⁻ is chosen from anions,

A is chosen from structures A₁ to A₁₉ below:

C3



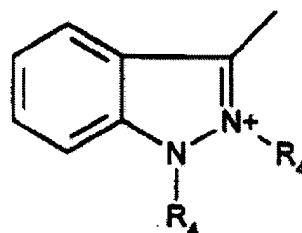
13



A₁₆

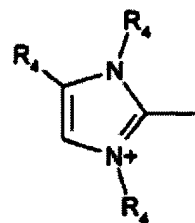


A₁₇



A₁₈

and



A₁₉

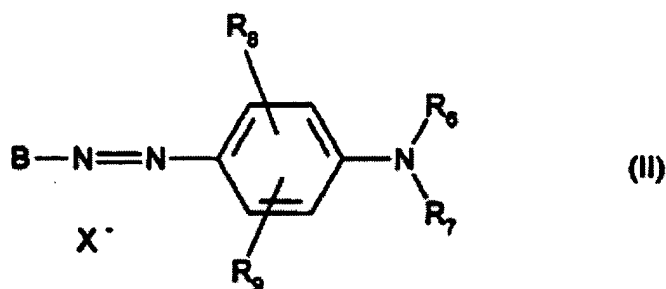
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

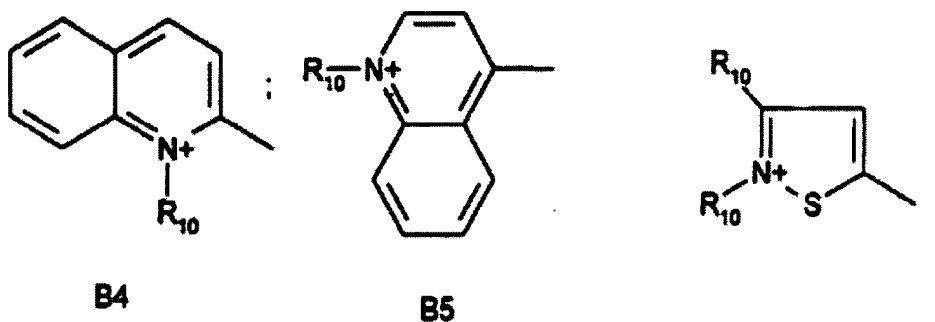
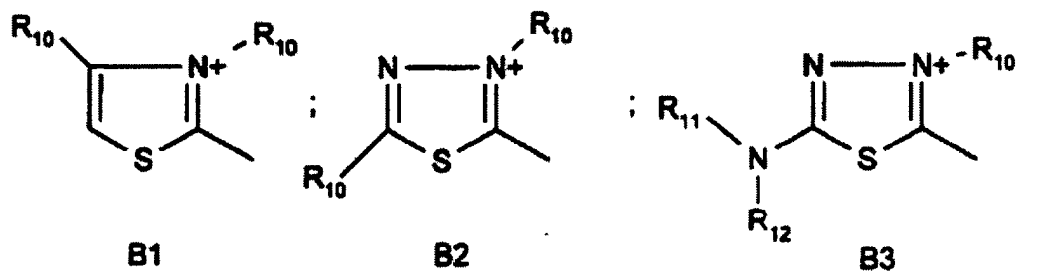
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



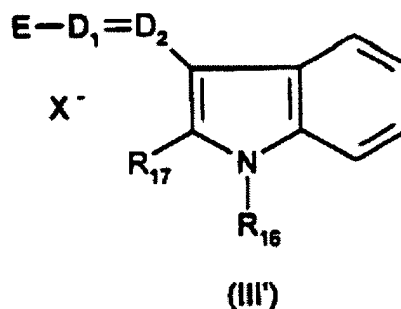
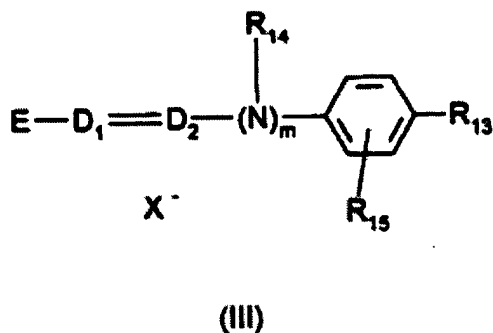
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

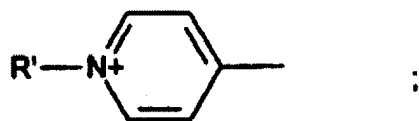
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

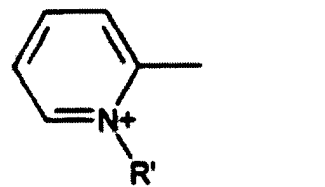
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

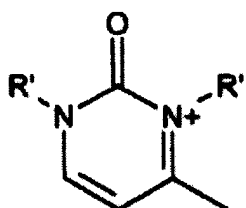
E is chosen from structures E_1 to E_8 below:



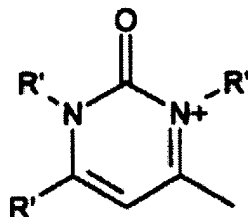
E1



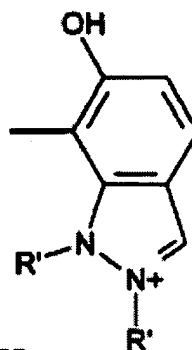
E2



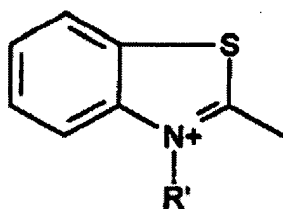
E3



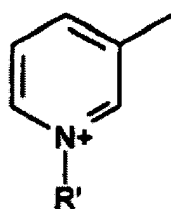
E4



E5

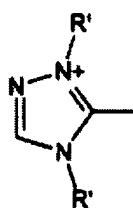


E6



E7

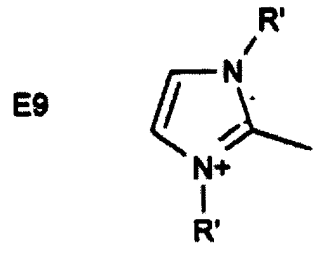
and



E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

- and wherein said at least one thickening polymer is chosen from:

(ii)₁ - nonionic guar gums;

(ii)₂ - biopolysaccharide gums of microbial origin;

(ii)₃ - gums derived from plant exudates;

(ii)₄ - pectins;

(ii)₅ - alginates;

(ii)₆ - starches; and

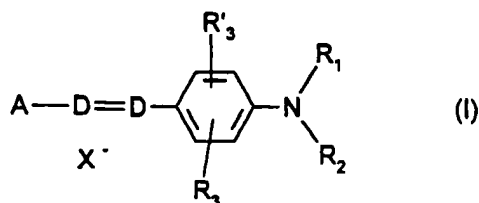
(ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses; and

- wherein said second composition comprises at least one oxidizing agent.

49
~~49.~~ (Amended Twice) A process for dyeing keratin fibers, comprising
separately storing a first composition,
separately storing a second composition,
thereafter mixing said first and second compositions,
applying said mixture to said fibers, and

developing for a period of time sufficient to achieve a desired coloration,
- wherein said first composition comprises at least one oxidation base, and
at least one cationic direct dye chosen from compounds of formulae (I), (II), (III)
and (III') below:

(a) wherein said compounds of formula (I) are chosen from compounds of
formula:



in which:

D is chosen from a nitrogen atom and a $-CH$ group,

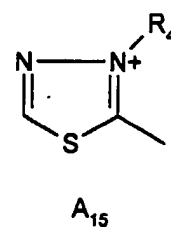
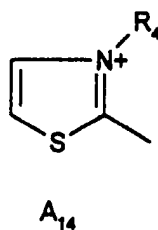
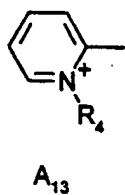
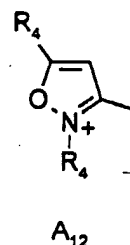
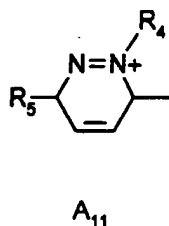
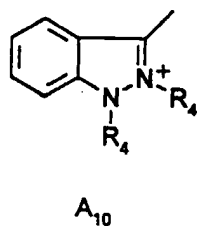
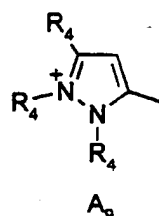
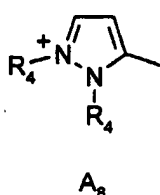
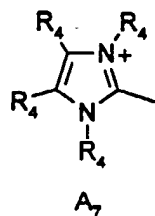
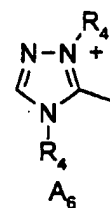
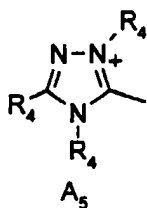
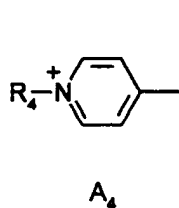
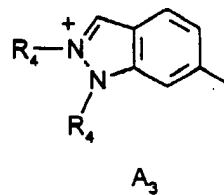
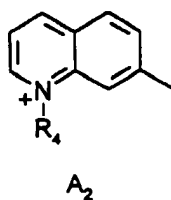
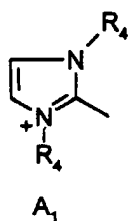
13
 R_1 and R_2 , which may be identical or different, are chosen from a
hydrogen atom; a 4'-aminophenyl radical; and C_1 - C_4 alkyl radicals which can
optionally be substituted with a radical chosen from $-CN$, $-OH$ and $-NH_2$ radicals;
or

R_1 and R_2 form, with each other or with a carbon atom of the benzene ring of
formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen
and nitrogen, which can be substituted with at least one radical chosen from
 C_1 - C_4 alkyl radicals;

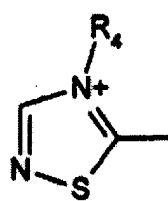
R_3 and R'_3 , which may be identical or different, are chosen from a
hydrogen atom, halogen atoms, a cyano radical, C_1 - C_4 alkyl radicals, C_1 - C_4
alkoxy radicals and acetyloxy radicals,

X⁻ is chosen from anions,

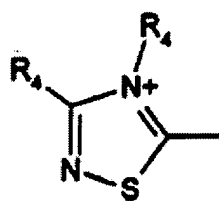
A is chosen from structures A₁ to A₁₉ below:



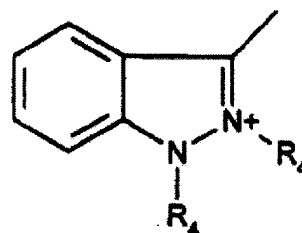
13



A₁₆

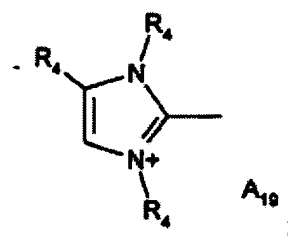


A₁₇



A₁₈

and



A₁₉

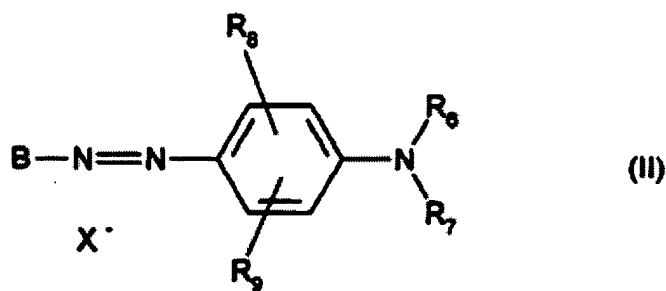
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

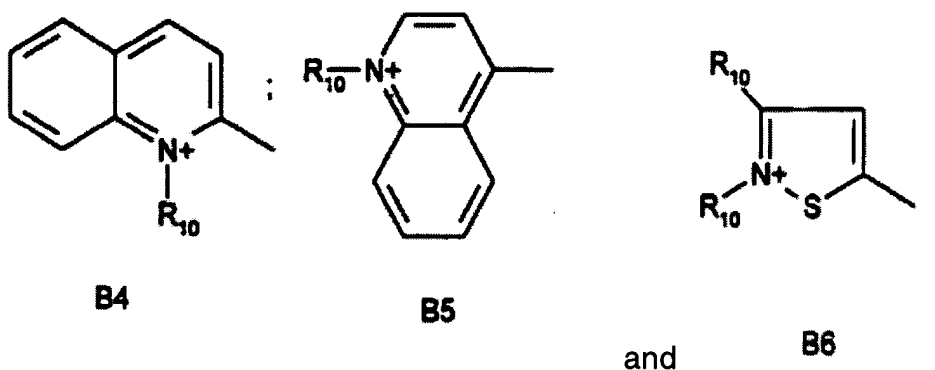
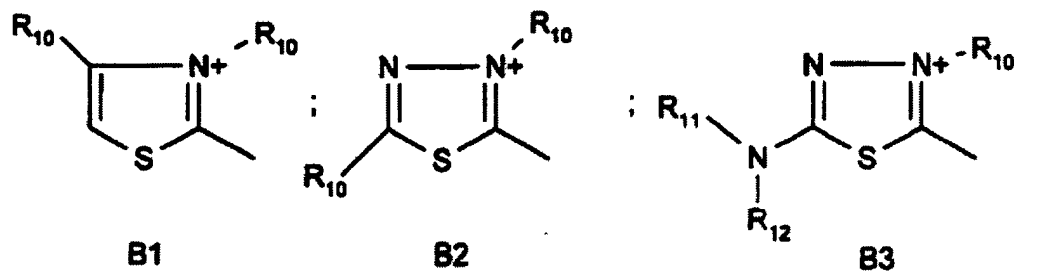
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:

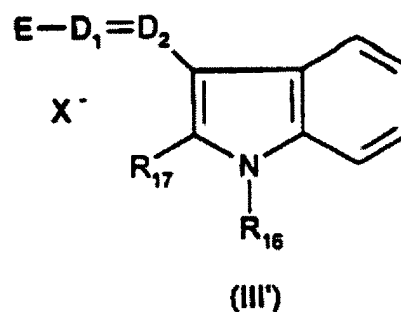
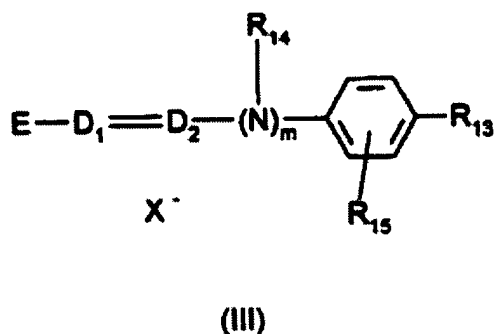


in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

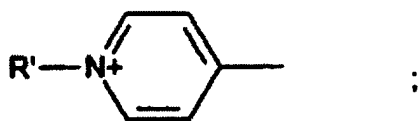
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

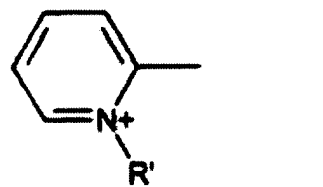
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

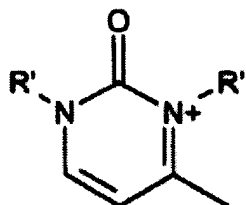
E is chosen from structures E_1 to E_8 below:



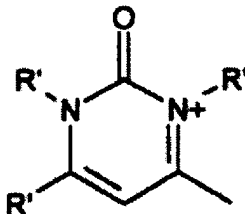
E1



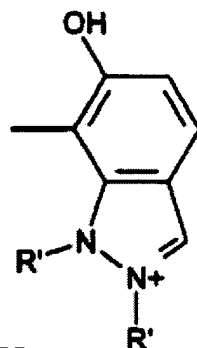
E2



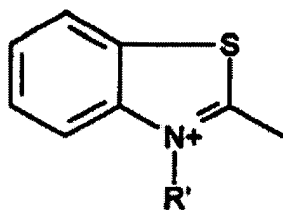
E3



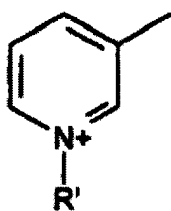
E4



E5

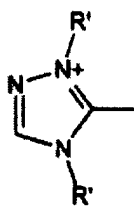


E6



E7

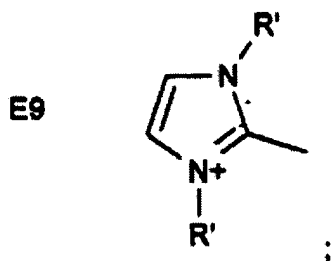
and



E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

and

- wherein said second composition comprises at least one oxidizing agent and at least one thickening polymer,

- wherein said at least one thickening polymer is chosen from:

(ii)₁ - nonionic guar gums;

(ii)₂ - biopolysaccharide gums of microbial origin;

(ii)₃ - gums derived from plant exudates;

(ii)₄ - pectins;

(ii)₅ - alginates;

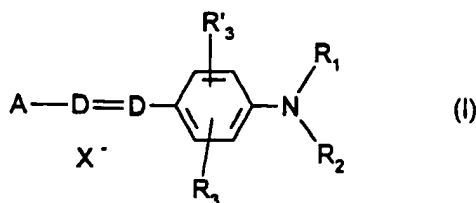
(ii)₆ - starches; and

(ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses.

50
50. (Amended Twice) A process for dyeing keratin fibers, comprising separately storing a first composition,
separately storing a second composition,

thereafter mixing said first and second compositions,
applying said mixture to said fibers, and
developing for a period of time sufficient to achieve a desired coloration,
- wherein said first composition comprises at least one cationic direct dye
chosen from compounds of formulae (I), (II), (III) and (III') below and at least one
thickening polymer:

(a) wherein said compounds of formula (I) are chosen from compounds
of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

R₁ and R₂, which may be identical or different, are chosen from a
hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can
optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals;
or

R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of
formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen
and nitrogen, which can be substituted with at least one radical chosen from
C₁-C₄ alkyl radicals;

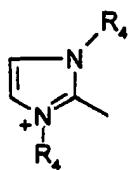
R₃ and R'₃, which may be identical or different, are chosen from a
hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄

alkoxy radicals and acetyloxy radicals,

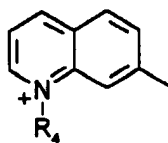
X^{\cdot} is chosen from anions,

A is chosen from structures A_1 to A_{19} below:

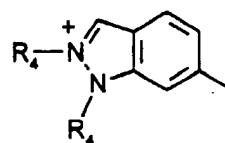
Q3



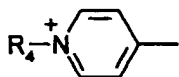
A₁



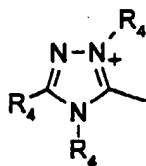
A₂



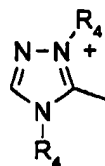
A₃



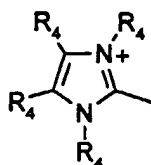
A₄



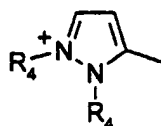
A₅



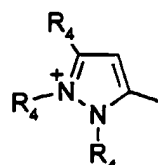
A₆



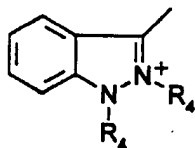
A₇



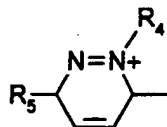
A₈



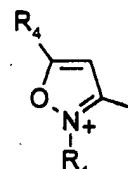
A₉



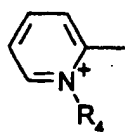
A₁₀



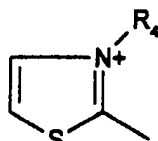
A₁₁



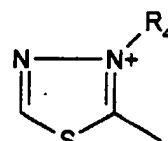
A₁₂



A₁₃

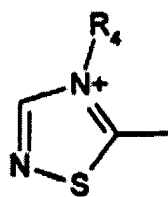


A₁₄

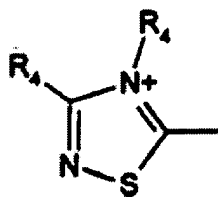


A₁₅

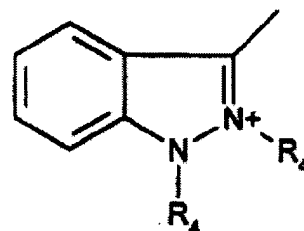
C3



A₁₆

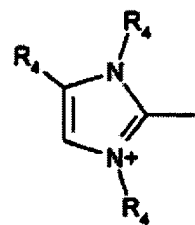


A₁₇



A₁₈

and



A₁₉

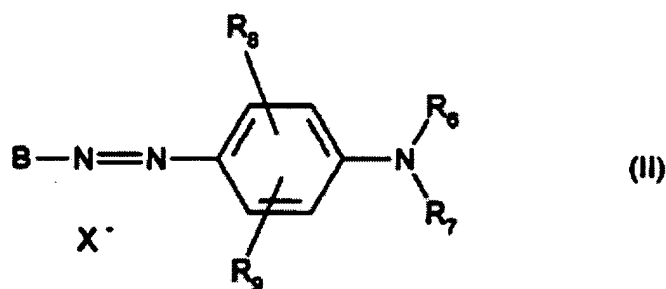
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

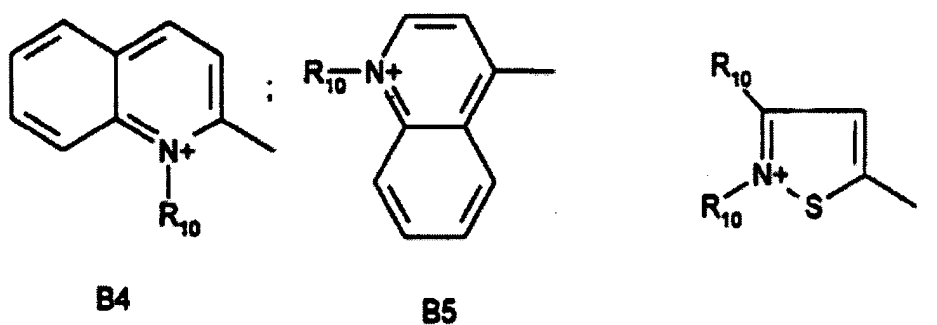
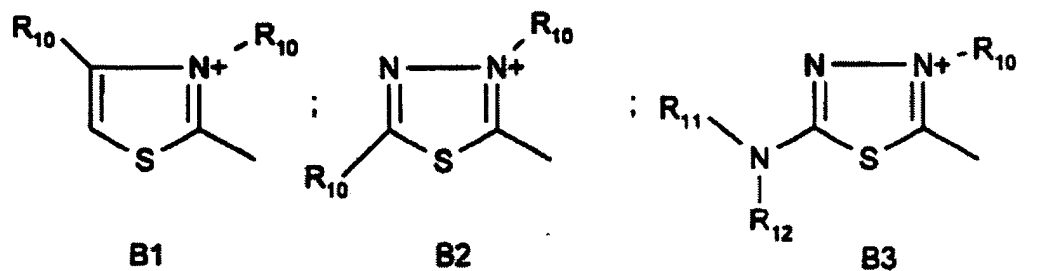
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

C³
R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



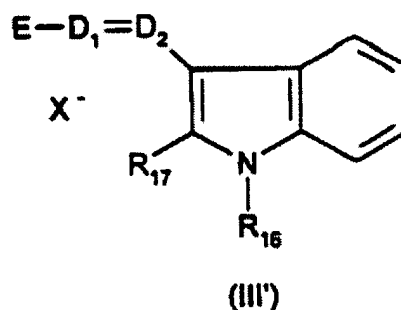
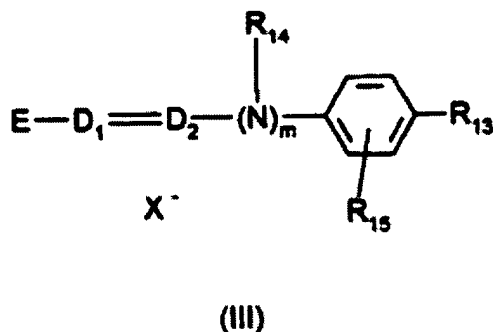
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

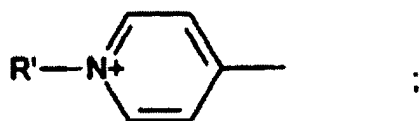
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

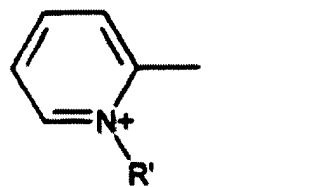
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

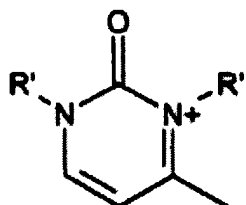
E is chosen from structures E_1 to E_8 below:



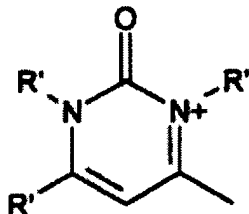
E1



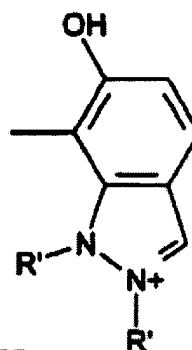
E2



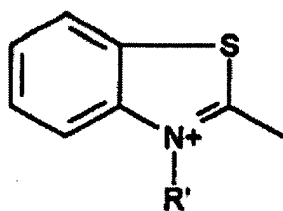
E3



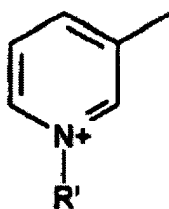
E4



E5

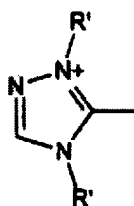


E6



E7

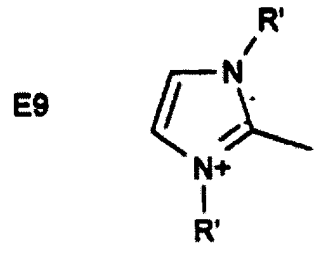
and



E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

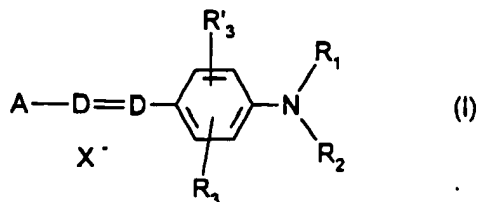
- wherein said at least one thickening polymer is chosen from:
 - (ii)₁ - nonionic guar gums;
 - (ii)₂ - biopolysaccharide gums of microbial origin;
 - (ii)₃ - gums derived from plant exudates;
 - (ii)₄ - pectins;
 - (ii)₅ - alginates;
 - (ii)₆ - starches; and
 - (ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses; and
- wherein said second composition comprises at least one oxidizing agent.

51

51. (Amended Twice) A process for dyeing keratin fibers, comprising separately storing a first composition, separately storing a second composition, thereafter mixing said first and second compositions, applying said mixture to said fibers, and


developing for a period of time sufficient to achieve a desired coloration,
- wherein said first composition comprises at least one cationic direct dye
chosen from compounds of formulae (I), (II), (III) and (III') below:

(a) wherein said compounds of formula (I) are chosen from compounds
of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

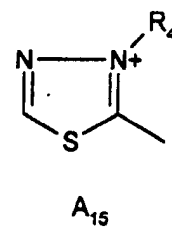
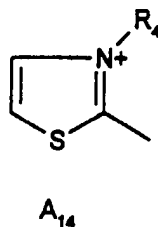
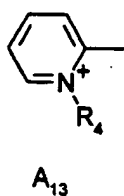
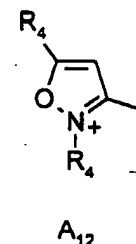
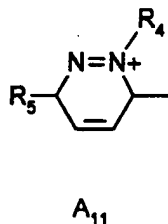
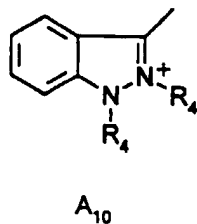
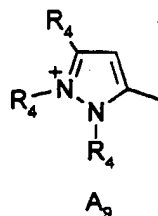
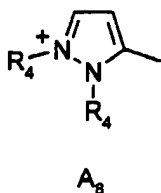
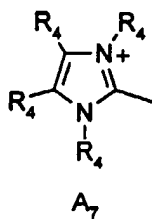
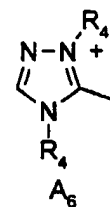
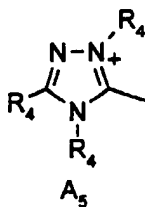
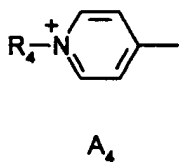
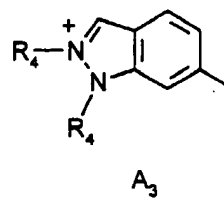
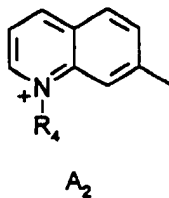
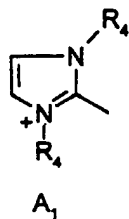
 R_1 and R_2 , which may be identical or different, are chosen from a
hydrogen atom; a 4'-aminophenyl radical; and $\text{C}_1\text{-C}_4$ alkyl radicals which can
optionally be substituted with a radical chosen from -CN, -OH and - NH_2 radicals;
or

R_1 and R_2 form, with each other or with a carbon atom of the benzene ring of
formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen
and nitrogen, which can be substituted with at least one radical chosen from
 $\text{C}_1\text{-C}_4$ alkyl radicals;

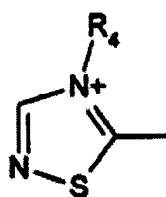
R_3 and R'_3 , which may be identical or different, are chosen from a
hydrogen atom, halogen atoms, a cyano radical, $\text{C}_1\text{-C}_4$ alkyl radicals, $\text{C}_1\text{-C}_4$
alkoxy radicals and acetyloxy radicals,

X^- is chosen from anions,

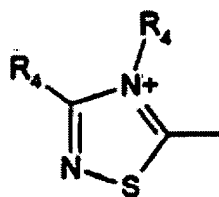
A is chosen from structures A₁ to A₁₉ below:



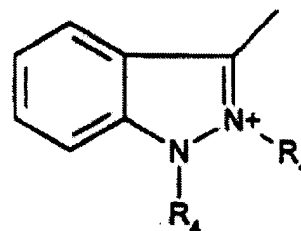
C3



A₁₆

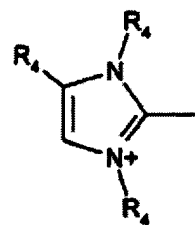


A₁₇



A₁₈

and



A₁₉

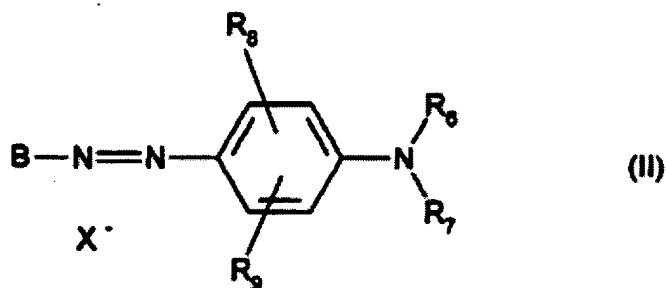
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

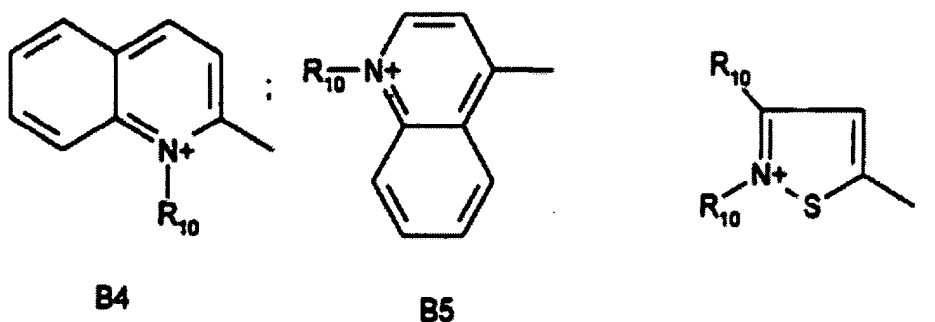
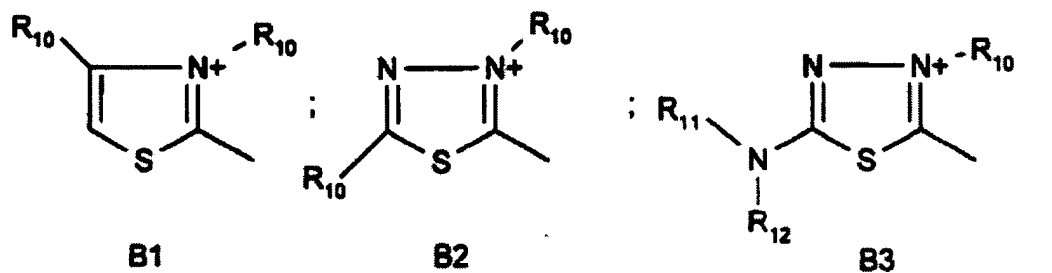
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



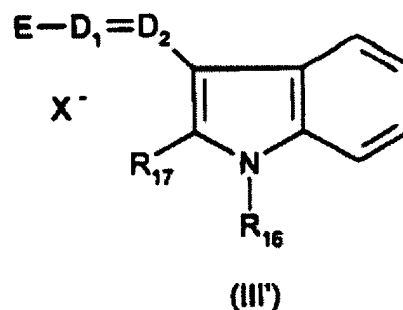
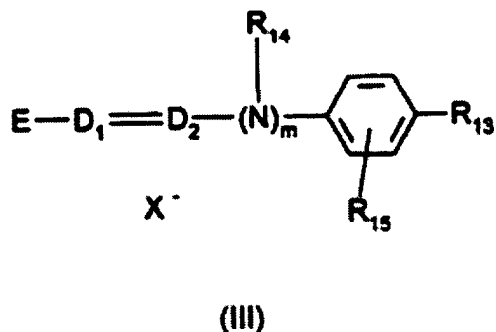
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

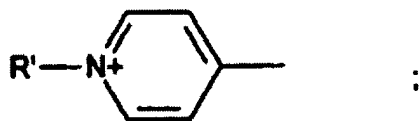
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

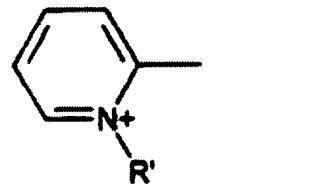
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

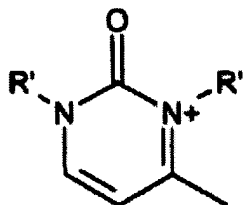
E is chosen from structures E_1 to E_8 below:



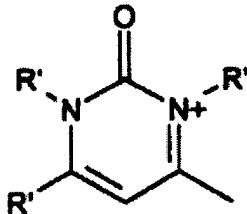
E1



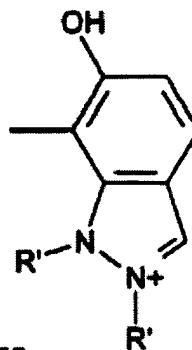
E2



E3

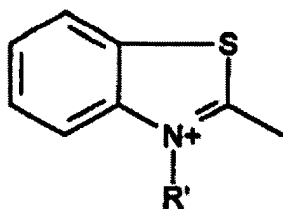


E4

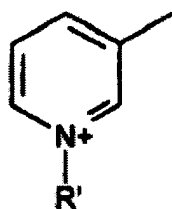


E5

C3

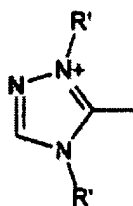


E6



E7

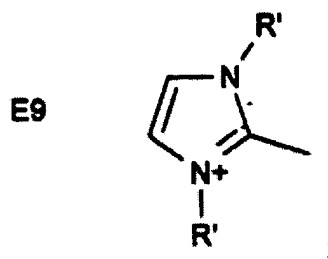
and



E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

- wherein said second composition comprises at least one oxidizing agent and at least one thickening polymer,

- wherein said at least one thickening polymer is chosen from:

(ii)₁ - nonionic guar gums;

(ii)₂ - biopolysaccharide gums of microbial origin;

(ii)₃ - gums derived from plant exudates;

(ii)₄ - pectins;

(ii)₅ - alginates;

(ii)₆ - starches; and

(ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses.

52

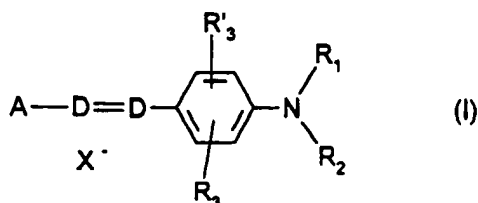
~~52.~~ (Amended Once) A multi-compartment dyeing kit, comprising at

least two separate compartments, wherein a first compartment contains a first composition and a second compartment contains a second composition,

- wherein said first composition comprises at least one cationic direct dye

chosen from compounds of formulae (I), (II), (III) and (III') below, at least one thickening polymer and at least one oxidation base:

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

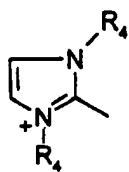
D3
R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

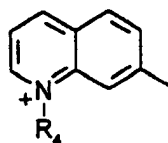
R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

X⁻ is chosen from anions,

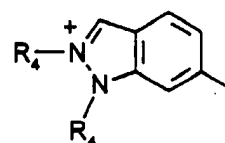
A is chosen from structures A₁ to A₁₉ below:



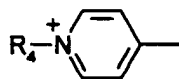
A₁



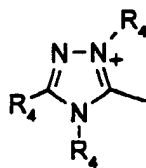
A₂



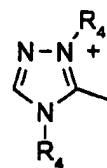
A₃



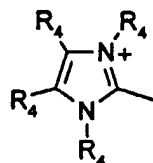
A₄



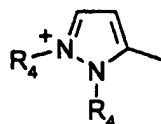
A₅



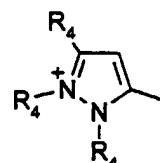
A₆



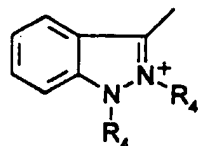
A₇



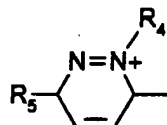
A₈



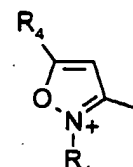
A₉



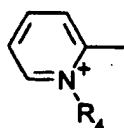
A₁₀



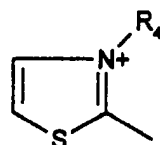
A₁₁



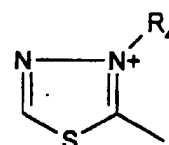
A₁₂



A₁₃

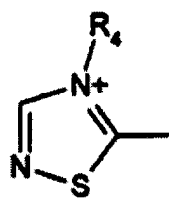


A₁₄

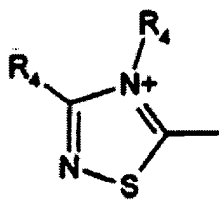


A₁₅

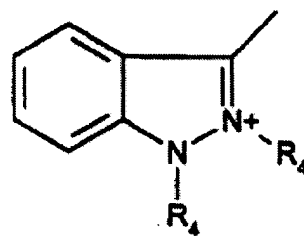
C3



A₁₆



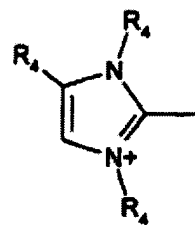
A₁₇



A₁₈

C3

and



A₁₉

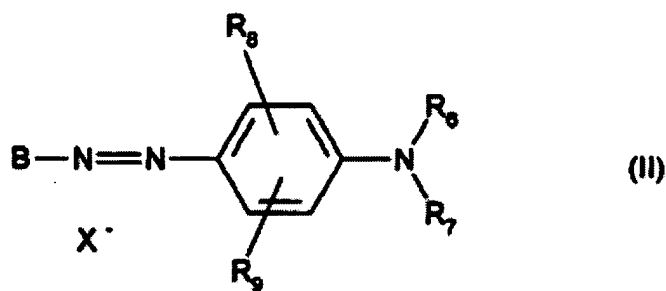
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

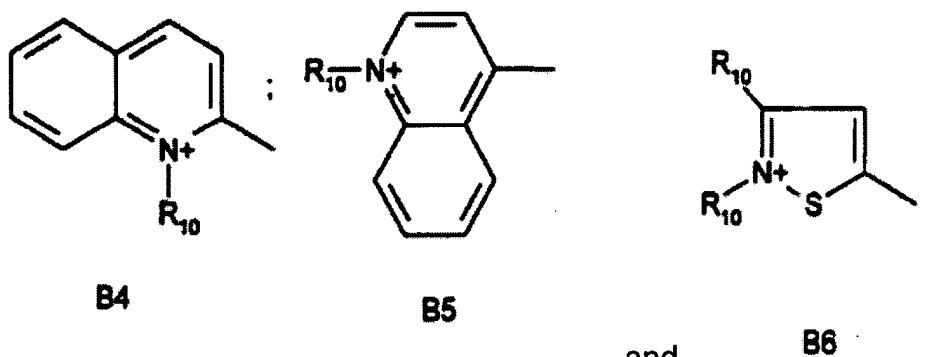
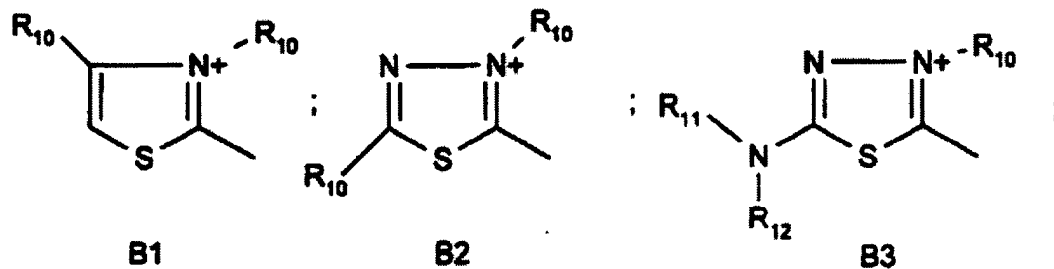
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



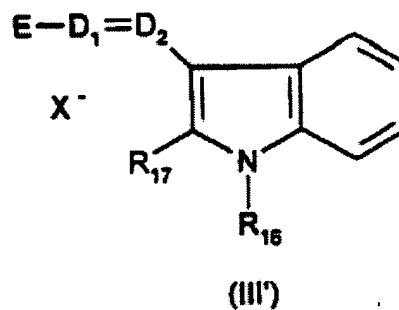
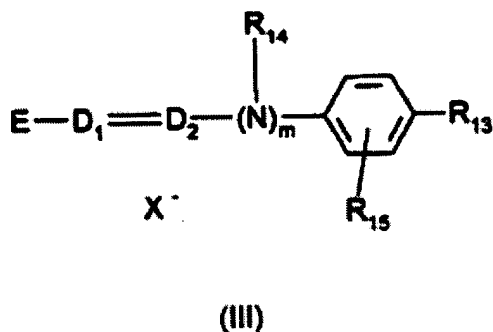
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

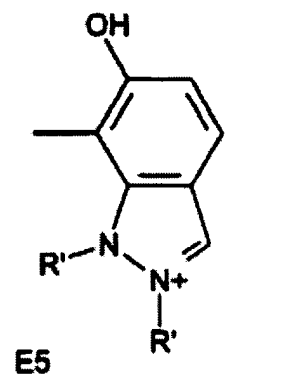
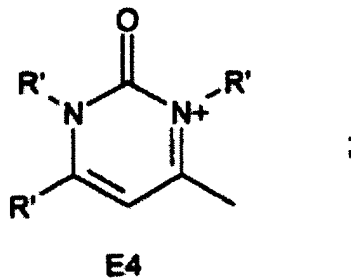
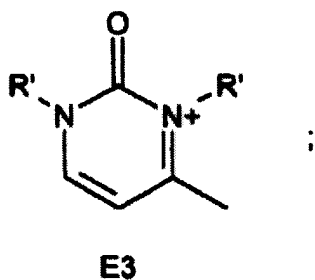
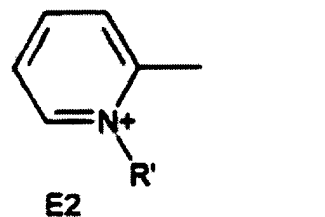
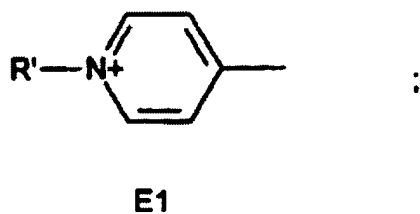
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

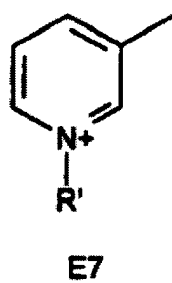
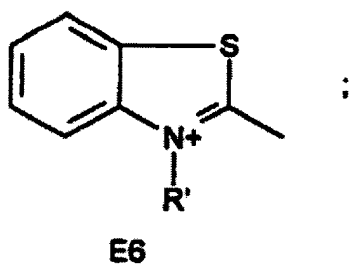
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

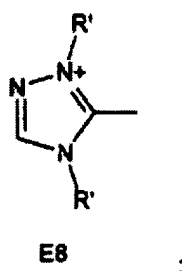
E is chosen from structures E_1 to E_8 below:



13

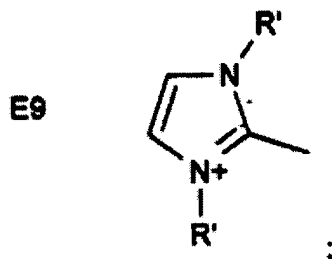


and



in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

- wherein said at least one thickening polymer is chosen from:
 - (ii)₁ - nonionic guar gums;
 - (ii)₂ - biopolysaccharide gums of microbial origin;
 - (ii)₃ - gums derived from plant exudates;
 - (ii)₄ - pectins;
 - (ii)₅ - alginates;
 - (ii)₆ - starches; and
 - (ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses; and
- wherein said second composition comprises at least one oxidizing agent.

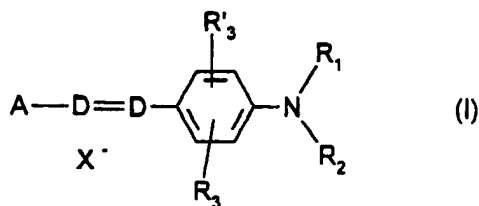
53
~~52~~

(Amended Once) A multi-compartment dyeing kit, comprising at least two separate compartments, wherein a first compartment contains a first composition and a second compartment contains a second composition,

- wherein said first composition comprises at least one oxidation base and at least one cationic direct dye chosen from compounds of formulae (I), (II), (III)

and (III') below:

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals;

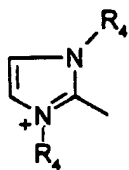
or

R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

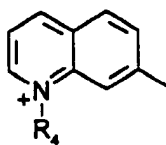
R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

X⁻ is chosen from anions,

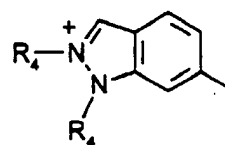
A is chosen from structures A₁ to A₁₉ below:



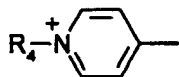
A₁



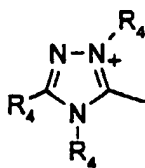
A₂



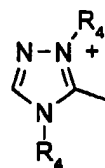
A₃



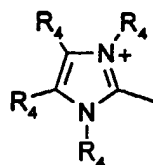
A₄



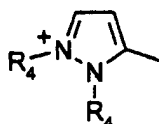
A₅



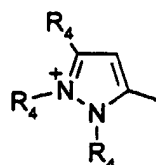
A₆



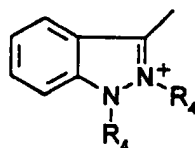
A₇



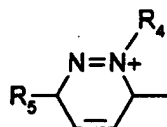
A₈



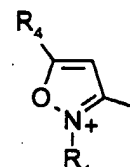
A₉



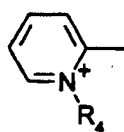
A₁₀



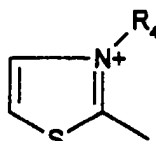
A₁₁



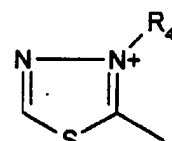
A₁₂



A₁₃

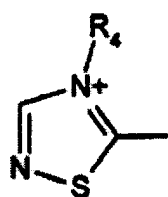


A₁₄

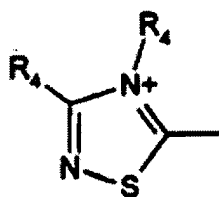


A₁₅

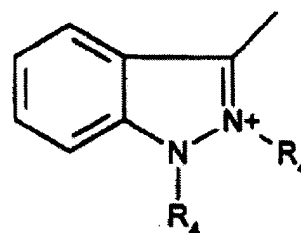
C3



A₁₆



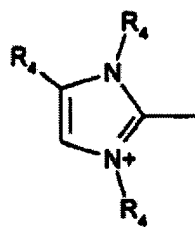
A₁₇



A₁₈

C₃

and



A₁₉

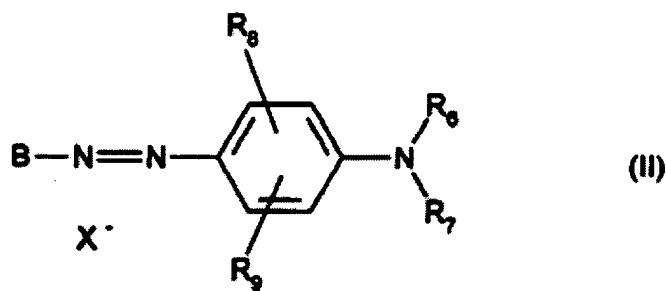
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

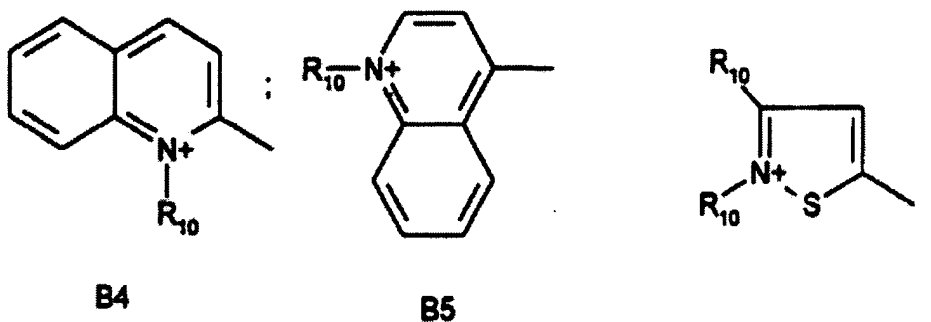
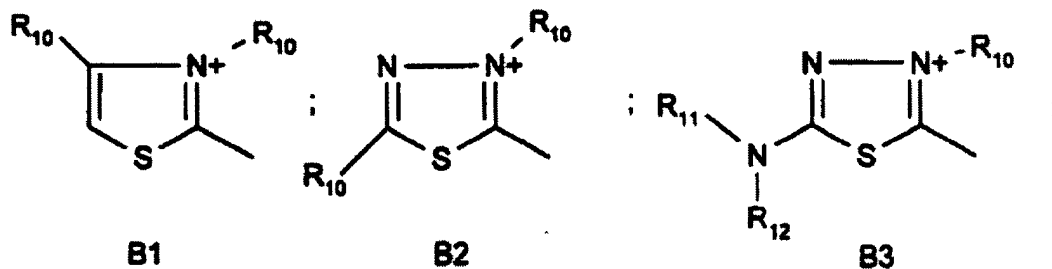
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



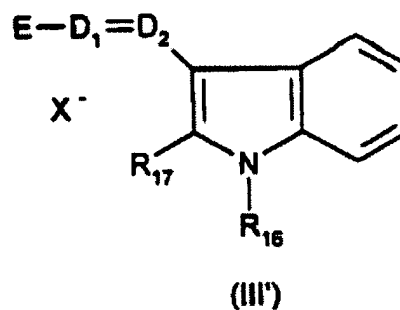
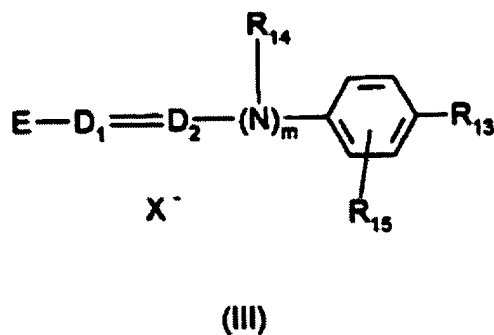
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C₁-C₄ alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C₁-C₄ alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C₁-C₄ alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

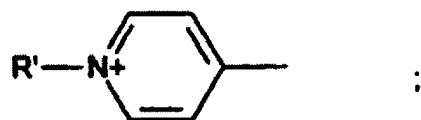
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

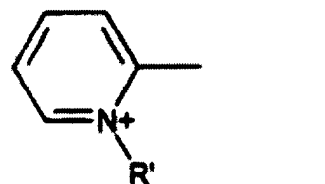
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

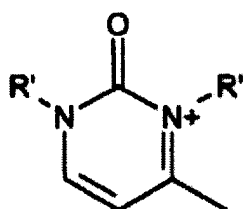
E is chosen from structures E_1 to E_8 below:



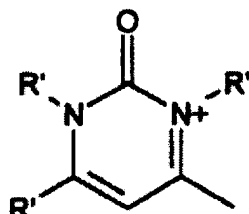
E1



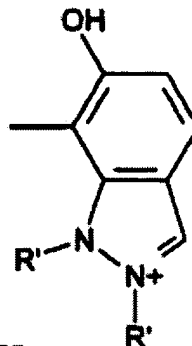
E2



E3

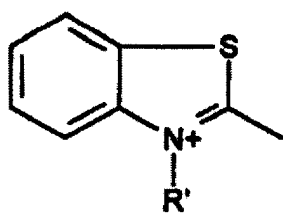


E4

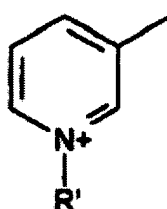


E5

13

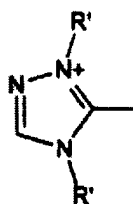


E6



E7

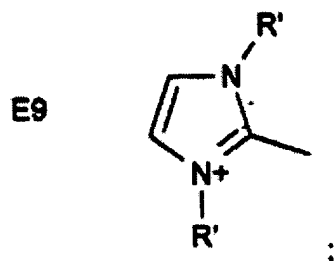
and



E8

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

- wherein said second composition comprises at least one oxidizing agent and at least one thickening polymer,
- wherein said at least one thickening polymer is chosen from:
 - (ii)₁ - nonionic guar gums;
 - (ii)₂ - biopolysaccharide gums of microbial origin;
 - (ii)₃ - gums derived from plant exudates;
 - (ii)₄ - pectins;
 - (ii)₅ - alginates;
 - (ii)₆ - starches; and
 - (ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses.

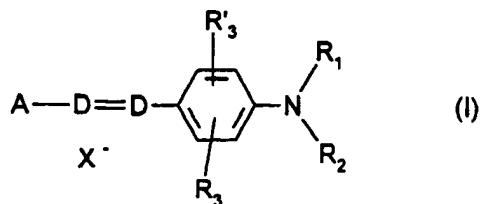
54

(Amended Once) A multi-compartment dyeing kit, comprising at least two separate compartments, wherein a first compartment contains a first composition and a second compartment contains a second composition,

- wherein said first composition comprises at least one thickening polymer

and at least one cationic direct dye chosen from compounds of formulae (I), (II), (III) and (III') below:

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

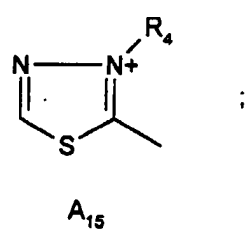
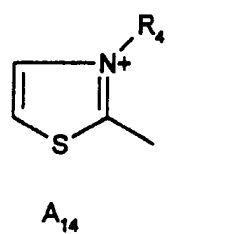
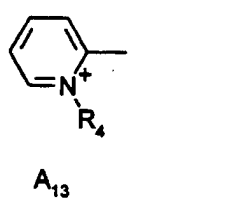
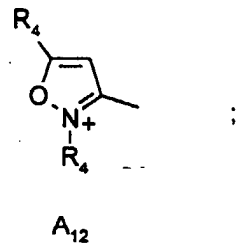
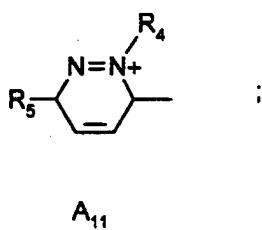
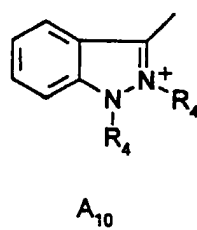
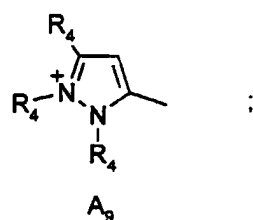
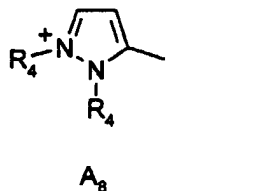
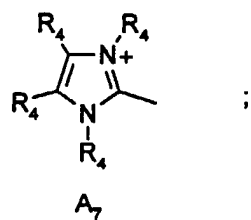
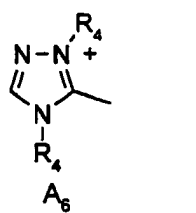
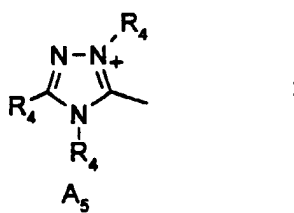
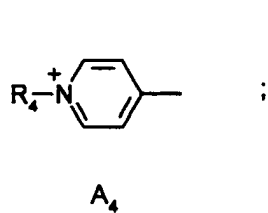
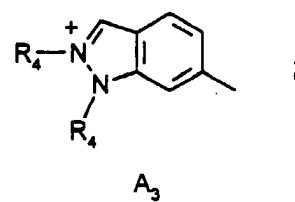
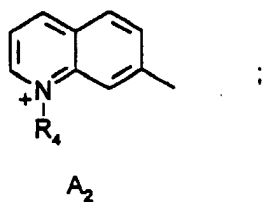
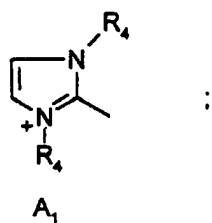
R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

C³
R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

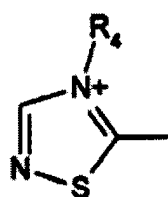
R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

X⁻ is chosen from anions,

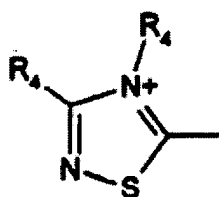
A is chosen from structures A₁ to A₁₉ below:



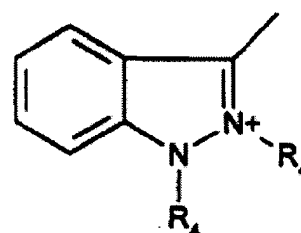
03



A₁₆



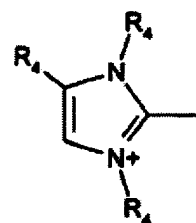
A₁₇



A₁₈

13

and



A₁₉

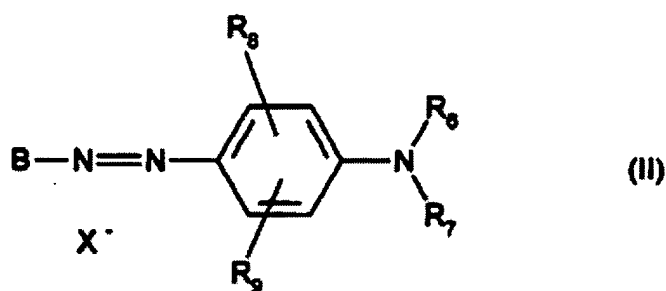
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

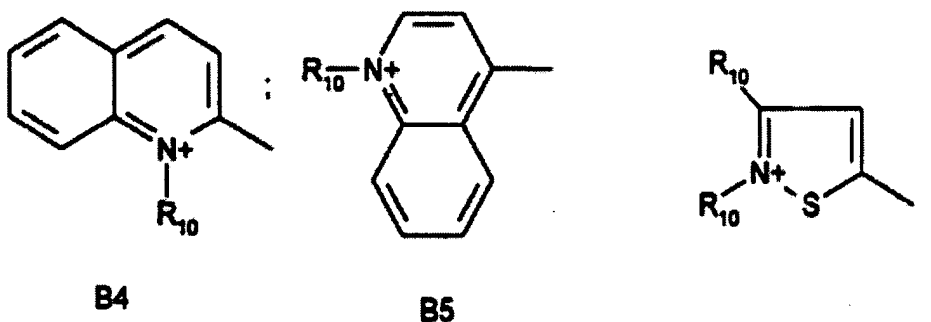
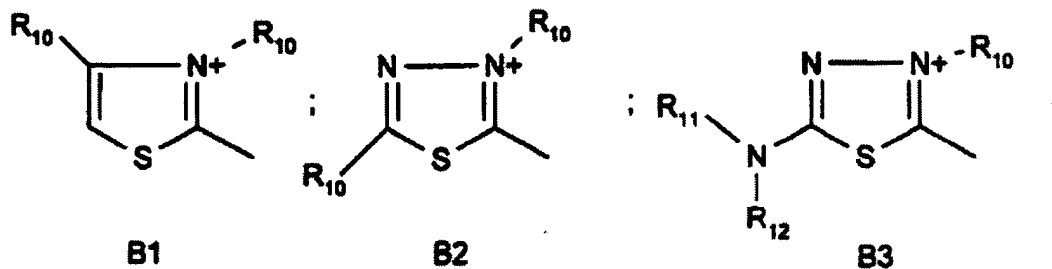
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



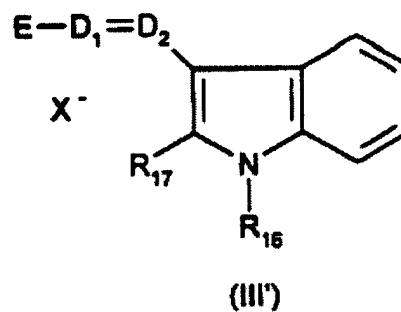
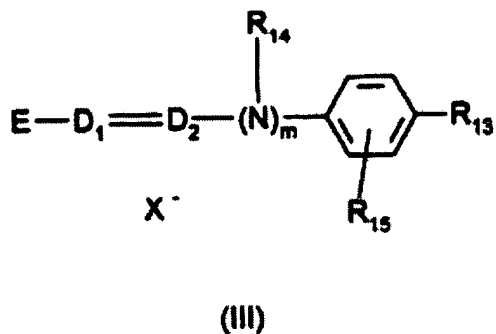
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

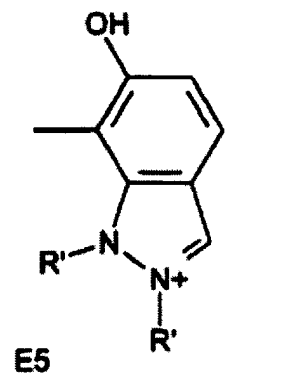
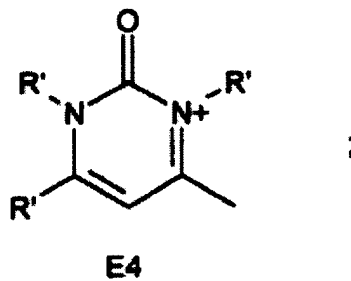
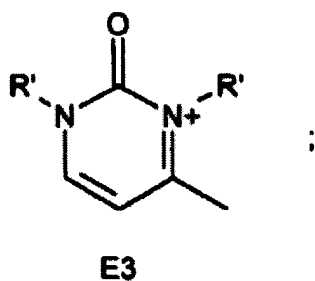
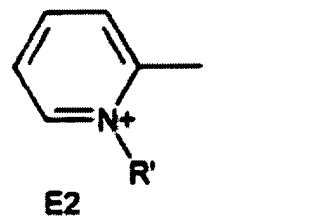
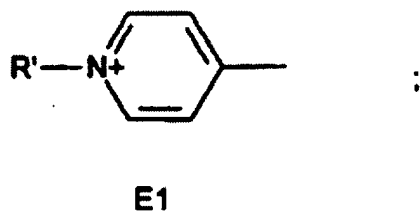
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

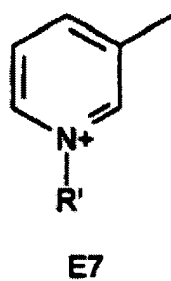
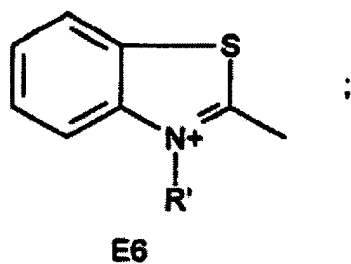
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

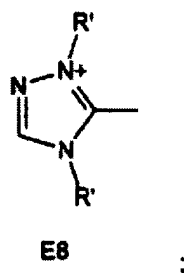
E is chosen from structures E_1 to E_8 below:



C13

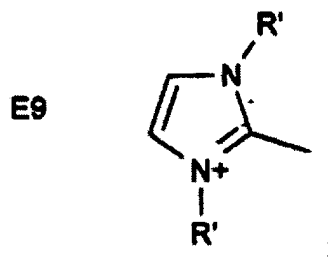


and



in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

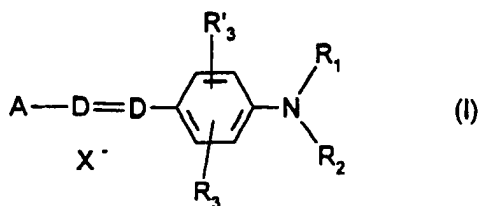
- wherein said at least one thickening polymer is chosen from:
 - (ii)₁ - nonionic guar gums;
 - (ii)₂ - biopolysaccharide gums of microbial origin;
 - (ii)₃ - gums derived from plant exudates;
 - (ii)₄ - pectins;
 - (ii)₅ - alginates;
 - (ii)₆ - starches; and
 - (ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses; and
- wherein said second composition comprises at least one oxidizing agent.

41
~~55~~

(Amended Once) A multi-compartment dyeing kit, comprising at least two separate compartments, wherein a first compartment contains a first composition and a second compartment contains a second composition,

- wherein said first composition comprises at least one cationic direct dye chosen from compounds of formulae (I), (II), (III) and (III') below:

(a) wherein said compounds of formula (I) are chosen from compounds of formula:



in which:

D is chosen from a nitrogen atom and a -CH group,

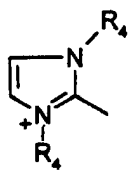
R₁ and R₂, which may be identical or different, are chosen from a hydrogen atom; a 4'-aminophenyl radical; and C₁-C₄ alkyl radicals which can optionally be substituted with a radical chosen from -CN, -OH and -NH₂ radicals; or

R₁ and R₂ form, with each other or with a carbon atom of the benzene ring of formula (I), a heterocycle optionally containing a heteroatom chosen from oxygen and nitrogen, which can be substituted with at least one radical chosen from C₁-C₄ alkyl radicals;

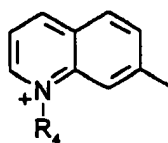
R₃ and R'₃, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, a cyano radical, C₁-C₄ alkyl radicals, C₁-C₄ alkoxy radicals and acetyloxy radicals,

X⁻ is chosen from anions,

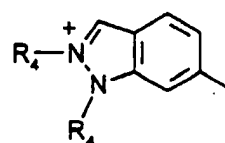
A is chosen from structures A₁ to A₁₉ below:



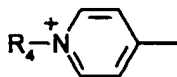
A₁



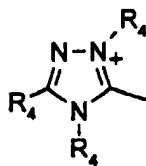
A₂



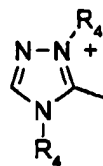
A₃



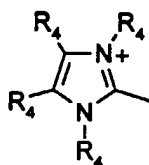
A₄



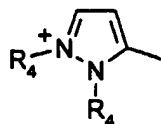
A₅



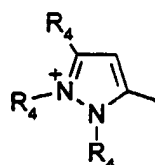
A₆



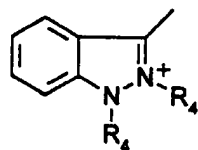
A₇



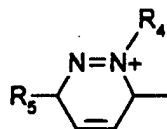
A₈



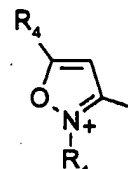
A₉



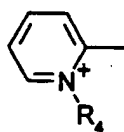
A₁₀



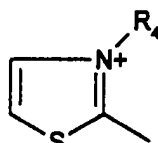
A₁₁



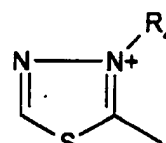
A₁₂



A₁₃

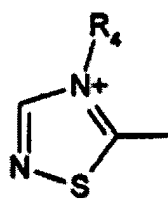


A₁₄

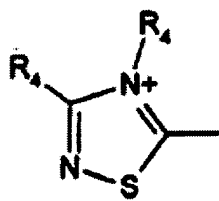


A₁₅

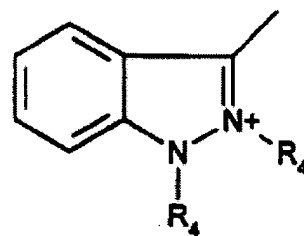
13



A₁₆



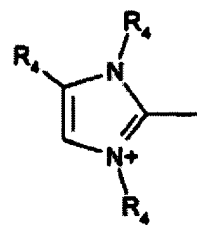
A₁₇



A₁₈

C₃

and



A₁₉

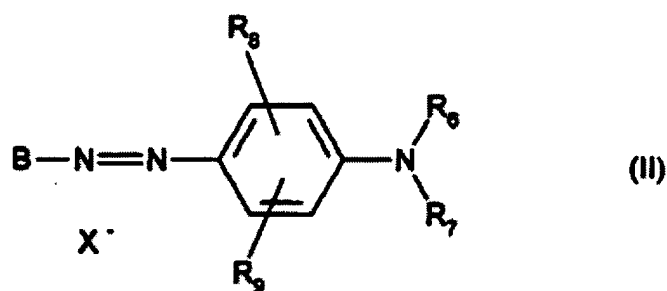
in which:

R₄ is chosen from C₁-C₄ alkyl radicals which can be substituted with a hydroxyl radical, and

R₅ is chosen from C₁-C₄ alkoxy radicals, and

wherein when D represents -CH, when A represents A₄ or A₁₃ and when R₃ is not an alkoxy radical, R₁ and R₂ are not both a hydrogen atom;

(b) wherein said compounds of formula (II) are chosen from compounds of formula:



in which:

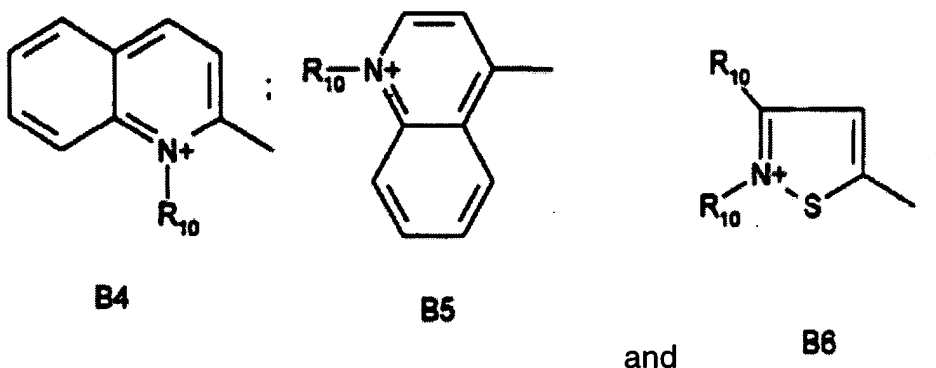
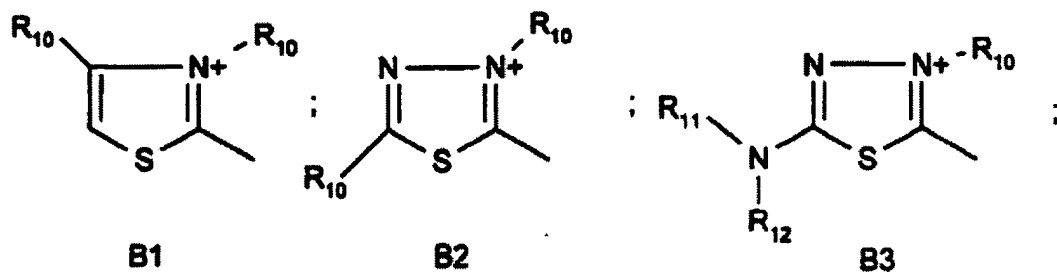
R₆ is chosen from a hydrogen atom and C₁-C₄ alkyl radicals,

R₇ is chosen from a hydrogen atom, alkyl radicals which can be substituted with a species chosen from a -CN radical and an amino group, and a 4'-aminophenyl radical, or forms, with R₆, a heterocycle optionally comprising at least one heteroatom chosen from oxygen and nitrogen, which can be substituted with C₁-C₄ alkyl radicals,

R₈ and R₉, which may be identical or different, are chosen from a hydrogen atom, halogen atoms, C₁-C₄ alkyl radicals C₁-C₄ alkoxy radicals and a -CN radical,

X⁻ is chosen from anions,

B is chosen from structures B₁ to B₆ below:



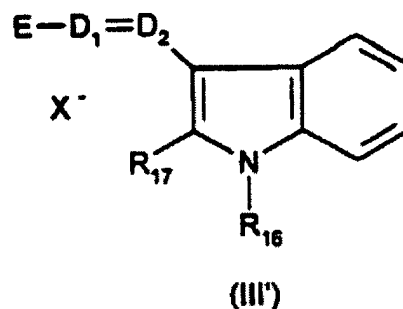
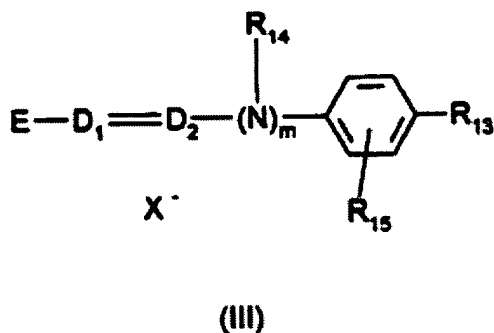
and

in which:

R_{10} is chosen from C_1 - C_4 alkyl radicals, and

R_{11} and R_{12} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals;

(c) wherein said compounds of formulae (III) and (III') are chosen from compounds of formulae:



in which:

R_{13} is chosen from a hydrogen atom, C_1 - C_4 alkoxy radicals, halogen atoms and an amino radical,

R_{14} is chosen from a hydrogen atom, C_1 - C_4 alkyl radicals or forms, with a carbon atom of the benzene ring, a heterocycle optionally containing an oxygen heteroatom and/or substituted with at least one radical chosen from C_1 - C_4 alkyl radicals,

R_{15} is chosen from a hydrogen atom and halogen atoms,

R_{16} and R_{17} , which may be identical or different, are chosen from a hydrogen atom and C_1 - C_4 alkyl radicals,

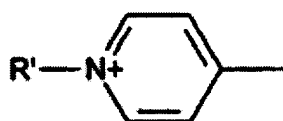
D_1 and D_2 , which may be identical or different, are chosen from a nitrogen atom and a -CH group,

m is 0 or 1,

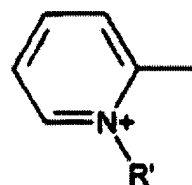
wherein when R_{13} is an unsubstituted amino group, D_1 and D_2 are both a -CH group and m is 0,

X^- is chosen from anions,

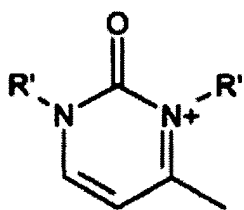
E is chosen from structures E_1 to E_8 below:



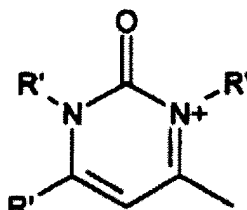
E1



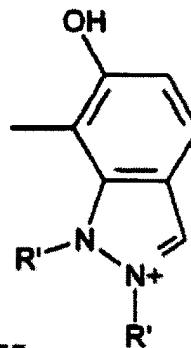
E2



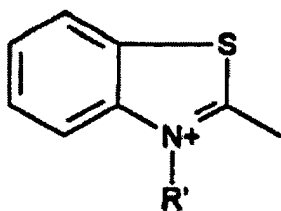
E3



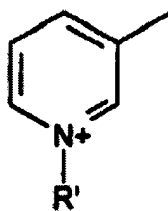
E4



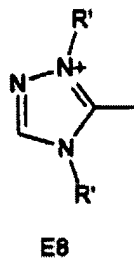
E5



E6



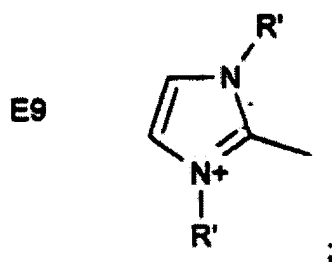
E7



and

in which R' is chosen from C₁-C₄ alkyl radicals;

wherein when m is 0 and when D₁ represents a nitrogen atom, E can be further chosen from structure E9 below:



in which R' is chosen from C₁-C₄ alkyl radicals;

- wherein said second composition comprises at least one oxidizing agent and at least one thickening polymer,
- wherein said at least one thickening polymer is chosen from:
 - (ii)₁ - nonionic guar gums;
 - (ii)₂ - biopolysaccharide gums of microbial origin;
 - (ii)₃ - gums derived from plant exudates;
 - (ii)₄ - pectins;
 - (ii)₅ - alginates;



(ii)₆ - starches; and

(ii)₇ - hydroxyalkylcelluloses and carboxyalkylcelluloses.

In accordance with the requirements of 37 C.F.R. § 1.121, the attached Appendix shows the changes to the claims that have been made by the amendment.

REMARKS

I. Status of the Claims

Claims 1-6 , and 8-55 are now pending in this application. Claim 7 has been cancelled and its subject matter incorporated into each of claims 1, 45, 48, 49, 50, 51, 52, 53, 54, and 55 in light of the Office's suggestions in a telephone conference with Applicant's attorney on June 5, 2002. This proposed amendment does not constitute new matter, or raise any new issues for search, as support for the proposed amendments is found in claim 7 as-filed. Accordingly, the above proposed amendment should place the claims in condition for allowance, or at least reduce the number of issues for appeal. Thereby, Applicant respectfully requests entry of the above amendment, reconsideration and reexamination of the application, and timely allowance of the pending claims.

II. Double Patenting Rejections

Claims 1-17 and 21-25 have been provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-46 of copending Application No. 09/349,436.